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FIRST NAMED INVENTOR ATTORNEY DOCKET NO. APPLICATION NO. **FILING DATE** 09/492,763 01/27/00 MASATSUJI E Q54487 Г **EXAMINER** Sughrue Mion Zinn MacPeak & Seas PLLC KIM, V 2100 Pennslyvania Ave N W ART UNIT PAPER NUMBER . Washington DC 20037-3213 1614 DATE MAILED:

Please find below and/or attached an Office communication concerning this application or pr ceeding.

**Commissioner of Patents and Trademarks** 

07/31/01

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		Application No.	Applicant(s)
Office Action Summary		09/492,763	MASATSUJI ET AL.
		Examiner	Art Unit
	,	Vickie Y. Kim	1614
	E of this communication app	rs on the cover sheet with the co	rrespondence address
Period for Reply	TORY REDIOD FOR REDIVI	IO OET TO EVENE A MONTH	0) 5004
THE MAILING DATE OI  - Extensions of time may be available after SIX (6) MONTHS from the  - If the period for reply specified of the period for reply is specified.  - If NO period for reply is specified.	THIS COMMUNICATION.  Table under the provisions of 37 CFR 1.136 mailing date of this communication. The shove is less than thirty (30) days, a reply will above, the maximum statutory period will extended period for reply will, by statute, calleter than three months after the mailing day.	IS SET TO EXPIRE 3 MONTH(  (a). In no event, however, may a reply be tile  within the statutory minimum of thirty (30) day apply and will expire SIX (6) MONTHS from ause the application to become ABANDONE ate of this communication, even if timely filed	mely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
1) Responsive to co	mmunication(s) filed on	_ •	
2a) This action is <b>FIN</b>		action is non-final.	
		ce except for formal matters, pr x parte Quayle, 1935 C.D. 11, 4	
Disposition of Claims			
	re pending in the application.		
	laim(s) <u>7,8 <i>and 10-15</i> is/are wi</u>	thdrawn from consideration.	
5) Claim(s) is			
6) Claim(s) is	are rejected.		
7) Claim(s) is	are objected to.		
8) Claims ar	e subject to restriction and/or e	election requirement.	
Application Papers			
	s objected to by the Examiner.		
10) The drawing(s) file	ed on is/are objected to	by the Examiner.	
• • • • • • • • • • • • • • • • • • • •		is: a) ☐ approved b) ☐ disapp	proved.
	ration is objected to by the Exa		
Priority under 35 U.S.C. ৡ ˈ	119		
		oriority under 35 U.S.C. § 119(a	)-(d) or (f).
a)⊠ All b)⊡ Some			, , , , , ,
1.⊠ Certified co	oies of the priority documents I	nave been received.	
		nave been received in Applicati	on No
applicat	ion from the International Bure		_
		the certified copies not receive	
14) Acknowledgemen	i is made of a claim for domest	tic priority under 35 U.S.C. § 11	ਤ( <b>੮</b> ).
Attachment(s)			
<ul> <li>15) Notice of References Cited</li> <li>16) Notice of Draftsperson's Pa</li> <li>17) Information Disclosure State</li> </ul>		19) Notice of Informal	ry (PTO-413) Paper No(s) Patent Application (PTO-152)

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#### **DETAILED ACTION**

#### Status of Application

1. Acknowledgement is made of applicant's response filed July 02, 2001. The election of Group I, claims 1-10 and the election of species which has been exemplified in claim 9 are affirmed by applicant. Thus claims 1-6 and 9 are maintained under the consideration for further examination whereas non-elected claims 7-8 (due to non-elected species) and 10-15 are maintained as withdrawn from the consideration.

### Declaration under 37 C.F.R. 1.132 acknowledged

2. Declaration under 37 C.F.R. 1.132 filed July 02, 2001 has been carefully considered and acknowledged. Since the declaration has made to attribute the cited reference and to obviate art rejection in previous office action, the declaration necessitated the new ground(s) of rejection presented in this office action as follows. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-6 are rejected as being anticipated by Fahim (US 4,372,296) or Schinitisky (US4,938,969) under 35 U.S.C. 102(b).

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The claims 1-6 read on a topical composition comprising a therapeutically effective amount of ascorbic acid derivative and a zinc salt; or a zinc salt of said ascorbic acid derivative.

Fahim or Schinitisky teaches a topical composition required by claims 1-6, comprising zinc salt(e.g. zinc sulfate) and ascorbic acid. Firstly, Fahim('296) teaches ascorbic acid composition that includes therapeutically effective amounts of both zinc salt(1-4%), ascorbic acid (2-6%). Secondly, Schinitisky ('969) also teaches a composition comprising zinc salt (0.5-5%) and ascorbic acid(2-20%). See full text, especially column 2, lines 55-58 and claims. Furthermore '296 patent teaches that the patented composition provides a synergistic combination effective as an antimicrobial agent, especially effective in the treatment of acne when they are applied to the skin whether or not they are sonicated into the skin. Each instant claim requires various therapeutic amounts for specific indication such as inhibiting amount for Propionibacterium. Even though the species of microorganism required are different from the species taught by the reference, it could been envisaged that the organisms required would be killed effectively by the patented composition as long as they contain same therapeutic effective amount disclosed in the instant specification (at page 15-17, 0.01-90% with ratio 1:0.1 to 1:10) because it should be inherently effective. See Ex parte Novitski 26 USPQ 1d 1389. All the critical elements required by the instant claims are met by the cited references.

It is also noted that a recitation of the intended use of the claimed invention, in case of the claimed invention is directed to the composition claims, must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If therapeutic amount is same for doing different activities, it should be considered as same. In this case, there are no specific differences(limitation recited) required

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by neither claims nor specification. If the prior art structure is capable of performing the intended use, then it meets the claim. See *In re Casey*, 152 USPQ 235 (CCPA 1967) and *In re Otto*, 136 USPQ 458, 459 (CCPA 1963).

Thus the claimed subject matter is not patentably distinct over the prior art.

# Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sano et al (US5,516,919) in view of Fahim or Schinitsky et al.

Sano et al teaches a metal salt of ascorbic acid derivative such as magnesium L-ascorbic acid-2-phosphate and a process of making the composition. Sano also teaches that the patented composition has enhanced therapeutic effects and good stability which is effectively used in various skin disorders (see full text, especially claim).

It fails to exemplify zinc salt of L-ascorbic acid phosphate as final product.

However it would have been obvious to any ordinary skilled artisan to extend Sano's teaching to make zinc salt of L-ascorbic acid phosphate when it is taken in view of Fahim or Schinitsky because Fahim or Schinitsky teaches the value of zinc salt in ascorbic acid composition when it is applied in the treatment of skin conditions. Fahim or Schinitsky, as

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mentioned earlier, emphasizes that the combination of ascorbic acid and zinc salt enhances efficacy synergistically and improves the stability as well. For instance, US'969 states that zinc sulfate is essential ingredient in ascorbic acid composition because there is no beneficial effect without zinc sulfate(see column 2, lines 55-58). Especially one would have motivated to do so with reasonable expectation of success because Sano teaches the technique to make metal salt of ascorbic acid-2-phosphate using zinc sulfate or zinc carbonate, in addition to the benefit of combination product such as improved therapeutic efficacy and stability. Even though Sano did not exemplify or was silent about final product of zinc salt L-ascorbic acid -2-phosphate, one would formulate the zinc salt of L-ascorbic acid 2-phosphate without difficulties when Sano's preparation has been learned (see column 4, lines 10-column 6, lines 50). Thus zinc salt of Lascorbic acid-2-phosphate is prima facie obvious and not patentably distinct over the prior art.

#### Conclusion

- Claims 1-6 and 9 are maintained as rejected. 7.
- 8. Claims 7-8 and 10-15 are withdrawn form consideration.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vickie Kim whose telephone number is (703) 305-1675 (Tuesday-Friday: 8AM-6:30PM) and Fax number is (703) 746-3165.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1235.

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Vickie Kim, Patent examiner July 24, 2001

William Jarvis Primary examiner

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